We claim:

1   1. A method for transmission of information in a communication system using ARQ

2   with IR, the method comprises:

3   providing, in information to be transmitted, identification information

4   and an information status flag having a certain value indicating whether the information

5   to be transmitted is NEW information or CONTINUE information;

6   waiting to receive an interrupt signal from a scheduling algorithm

7   resulting

8   from the information being applied to the scheduling algorithm; and

9   transmitting the information upon reception of the interrupt signal from

10   the scheduling algorithm thus allowing transmissions to occur in an asynchronous

11   manner.

1   2. The method of claim 1 where the step of waiting to receive an interrupt signal further

2   comprises

3   waiting for a confirmation message in response to a previous

4   transmission; and

5   applying NEW information to be transmitted to the scheduling algorithm

6   upon reception of a positive confirmation message in response to a previous transmission

7   or selecting CONTINUE information and applying such CONTINUE information to the

8   scheduling algorithm upon reception of a negative confirmation message in response to a

9   previous transmission.

1   3. The method of claim 1 where the step of transmitting information upon reception

2   of the interrupt signal from the scheduling algorithm further comprises selecting NEW

3   information and applying said NEW information to the scheduling algorithm when an

4   established maximum number of retransmissions of the transmitted information has been

5   reached.

1   4. The method of claim 3 where any remaining CONTINUE information is

2   discarded.

1   5. The method of claim1 where the information status flag is a one-bit

2   NEW/CONTINUE flag.